

Department of Health and Human Services Safety and Health Program Indoor Air Quality Inspection Protocol

Building Name	of 7th Quanty inspection reduced						
Ventilation Area Description							
Date of Initial Survey	WWW.TD (1 1 0) (1 2)						
Determine Threshold number	Total number of persons in ventilation area						
for ventilation area	20% of total number of persons (Threshold Number)						
Inspect the Ventilation area.	1 Blocked ventilation vents						
Check the items/conditions	2 High concentrations of insect husks, bird droppings, etc.						
found	3 Dried out floor drains						
*Obtain MSDS	4 Visible fungal infestation						
Obtain WSDS	5 Water damage to or damp ceilings, walls, carpet, upholstery, e	etc.					
	6 Combustion processes						
	7 Welding						
	8 Improperly vented gas-fired furnaces and water heaters						
	9 Improperly vented gasoline or kerosene appliances						
	10 Copy machines in enclosed rooms or badly ventilated area						
	11 Microfilm equipment with heavy use						
	12 X-Ray processing equipment*						
	13 Pesticide/Insecticide use* 14 New structural renovation (<3 months)						
	15 Newly installed carpet (<3 months)						
In an and the IIVIA Constanting							
Inspect the HVAC exterior fresh air intakes. Check the	16 Proximity of heavy vehicular traffic or idling for extended pe	eriods					
items/conditions found	17 Bare dirt or excessive plant life within 5 feet of intakes						
items/conditions found	18 Dirt, dust, etc. in intake						
	19 Smoking area within 5 feet of intakes						
Inspect each complaint area.	A. Outside Air Temperature						
Check if conditions exist in	B. Outside Humidity						
any of them, and list number of areas with the condition.	C Carbon dioxide concentrations exceeding 1000 ppm						
of areas with the condition.	D Temperature outside 68 - 76° F Range						
	E. Humidity outside 20-60% Range						
	F Inadequate cubic feet per minute of outdoor air						
	G. Other conditions needing correction						
Conduct interview of	a. Allergic reactions						
complainant(s) and of all	b. Chest Tightness						
persons indicated to have	c. Chills						
similar symptoms. List the number of persons with each	d. Coughing						
symptom (including any other	e. Difficulty Concentrating						
complaint within past three	f. Dizziness						
months). Check if number of	g. Drowsiness						
complaints exceeds threshold	h. Eye/nose/throat/respiratory irritation						
number	i. Fatigue j. Fever						
	k. Headache						
	I. Increased respiration rate						
	m. Muscle pain						
	n. Nausea						
	o. Sensitivity to odors						
	p. Skin rash						
	F. 2						
Notes:							
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Indoor Air Quality Protocol: Ventilation Area

Indoor Air Quality Protocol: V	entilation Area							
Match conditions (1-19) and	Potential Source	Conditions	Symptoms					
symptoms (a-q.) Check	I. Acetic Acid (10 ppm)	j						
potential chemical sources	II. Carbon Dioxide (5000 ppm)	1, 6-9	f, h, m					
	III. Carbon Monoxide (35 ppm)	6-9, 16, 19	g, l, o					
	IV. Formaldehyde (0.5 ppm)	6, 14, 15, 19	a, i, p, q					
	V. Nitrogen Oxides	7, 8, 9, 16, 19	i					
	VI. Ozone (0.1 ppm)	10	i					
	VII. VOCs	3, 6, 10, 13, 14, 16	g, i, j, l, o					
	VIII. Organic Gases	6, 11, 19	i					
	IX. Microorganisms/Microbials	2, 4, 5, 17, 18	a, b, c, d, e, k, l, n, o					
X. Compare symptoms to		J	, , ,					
MSDS for cleaning chemicals								
and pesticides used in area.								
Check and list matches								
E. Describe any other								
conditions observed. Check if								
corrective actions should be								
taken, and describe those								
actions.								
Competing Astions board on id	ontical deficiencies							
Corrective Actions based on ide ASHRAE (A-D)	Correct conditions to meet ASHRA	AE specifications						
, ,	Test for actual level of source	al specifications						
Chemical Sources (I – VI)								
		Develop plan of action if above PEL						
11001		Determine which VOCs/gases are present and their source						
VOC/organic gases (VII-VIII)		Test for actual level of identified VOCs						
	Develop plan of action if above PEL to reduce concentrations							
Microorganisms (4, IX)	Repair and eliminate moisture sour	rces						
Wilci OOI gailisilis (4, 17)	Disinfect and Clean							
MSDS Substances (X)	Develop plan of action, i.e. PPE, s	ubstitution, barriers, so	chedule, etc					
Other Actions (E)	Perform corrective actions.							

Signature of Assessor



Department of Health and Human Services Safety and Health Program Indoor Air Quality Survey Employee Questionnaire

1. Identification	В	Building									
	V	Ventilation Area									
	C	Complaint Area									
2. Employee	N	Name									
	Job Title										
Time in Complaint Area											
3. Date											
4. Where do you sp	end the	largest	part of vo	our							
time in the building											
	_										
5. What kind of syn				ncing?	List when they	started, when an	d where th	ey are			
at their worst, and							75.11				
Symptom	Date B	egan			at their worst	When/Where					
			Time	Place	!	they go away	Yes	No			
			i	 							
				ļ							
				<u> </u>							
		_	— I	Ţ			T				
6. Have you noticed temperature, humitend to occur at the symptoms? Please	dity, bui e same ti	ilding a	ctivities) (
7. Do you have any					Contact Ler	ıses					
that may make you		larly su	ısceptible	to	Allergies						
environmental pro	blems?				Any cardiovascular disease						
					Any respiratory disease						
					Any neurological problems Immune system suppressed						
					Smoking Smoking						
					Sinoning						
8. Do you have any observations about the building that might need attention or help explain your symptoms? (temperature, humidity, drafts, odors, etc.)					1						
9. Do you know an	y other e	employe	ees								
experiencing the same symptoms?											

Indoor Air Quality Protocol: Employee Interview

Is there any other information you wish to provide concerning the quality of indoor	air in this building?
Please read the statement below and sign and date if you are in agre	
I understand that the information I have provided on the reverse side of this doc	
evaluating the indoor air quality of my building only. I understand that this info	
the final report of this assessment, which will be made available to the safety pr Department and my Division/Institution and to members of my direct chain of co	
Department and my Division institution and to memoris of my uncer chain of the	Villiand
Employee's Name (Signature)	Date



Department of Health and Human Services Safety and Health Program Indoor Air Quality Survey Complaint Area Survey

Identification	Building					
	Ventilation Area					
	Complaint Area					
	Survey Date					
Names of employees making	·					
complaints						
Measure complaint area. Check if outside acceptable	Carbon Dioxide Co Standard <5000 PI	oncentration (>1000 PPM Test cfm, OSHA PM)				
range.	Temperature: (68-7	76° F)				
	Humidity: (20% - 6	50%)				
Determine the Necessary	List number of pers	sons in Complaint Area				
cubic feet per minute of outdoor air in complaint area.	Enter 15 if individu	nal office or 20 if office area (cubicles)x				
outdoor an in complaint area.	Multiply to determine	ine Necessary cfm of outdoor air				
Determine the Actual CFM of	Enter CFM for con	nplaint area (Block A on back)				
outdoor air. Check if Necessary > Actual	Enter percent of outdoor air as decimal (0.20 if unknown)					
Necessal y > Actual	Multiply to determine	ine Actual CFM of outdoor air.				
List any other conditions observed. Check if corrective actions are needed, and describe those actions.						

Indoor Air Quality Protocol: Complaint Area

CFM Measurements and CalculationsMeasure at least one vent of different sizes

Length (ft.)		Width (ft.)		Area (ft²)		Airspeed (LFM)		Airflow (CFM)		No. Vents		Total (CFM)
(=0)	х	(200)	=	(20)	х	(====)	=	(222.2)	х	, 5350	=	(020.2)
	Х		=		х		=		х		=	
	Х		=		х		=		х		=	
	х		=		х		=		х		=	
	х		=		х		=		х		=	
	Х		=		х		=		х		=	
	Х		=		х		=		х		=	
	Х		=		х		=		х		=	
	Х		=		х		=		х		=	
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	Х		=		х		=		х		=	
	х		=		х		=		х		=	
	Х		=		х		=		х		=	
	х		=		х		=		x		=	
	х		=		х		=		x		=	
	Х		=		х		=		х		=	
	Х		=		х		=		х		=	
	X		=		х		=		х		=	
	Х		=		х		=		х		=	
	х		=		х		=		х		=	
	X		=		Х		=		х		=	
	х		=		х		=		х		=	
	х		=		х		=		х		=	
	х		=		х		=		х		=	
	х		=		х		=		X		=	
			Γ	Total CFM	for (Complaint Ar	rea				A	